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Tetrahydro-pyrido(3,4-d)pyridazine-1,4-dione derivs. prepn. - from 4-phenyl-oxazole and N-substd. maleimides
Patent Assignee: TAKEDA CHEM IND LTD

Patent Family (1 patent, 1 country)

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Alerting Abstract: JP A

7-Phenyl-1,2,3,4-tetrahydropyrido(3,4-d)pyridazine-1,4-dione (I) was prepd. by (1) Diels-Alder reaction of 4-phenyloxazole (II) with N-substd. maleimides (III); (R = aliphatic or aromatic residues), (2) dehydration of the resulting (IV) in the presence of acids or bases, and (3) reaction of the resulting (V) with NH₂NH₂. (I) has hypotensive and diuretic activities. In an example, reflux of 11.6 parts (II) and 14 parts (III) (R = Ph) in C₆H₆ 32 hr. gave 95.6% (IV) (R = Ph) (V)(VI). Reflux of 8 parts (VI) and 2 parts SnCl₄ in EtOH 1.5 hr. gave 80% (V) (R = Ph)(VII). Heating 3 parts (VII) with 30 parts 80% NH₂NH₂.H₂O in (CH₂OH)₂ 50 min. at 108-10 degrees C. gave 96% (I).

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